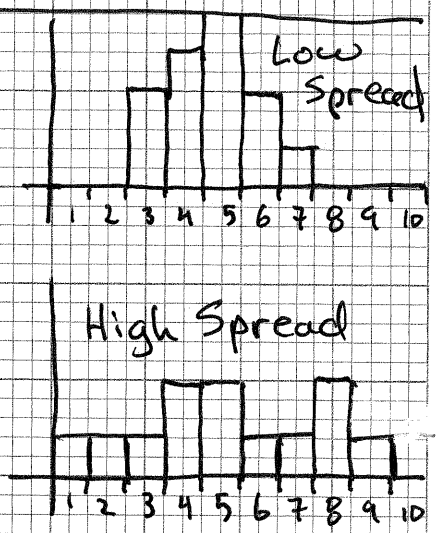
MEASURES OF SPREAD or DISPERSION

X: 3, 3, 4, 4, 4, 5, 5, 5, 5, 6, 6, 7,

Y: 1, 2, 3, 4, 4, 5, 5, 6, 7, 8, 8, 9



IQR Inter-Quartile Range

X: 4 - 5.5 or 1.5

Y: 3.5 - 7.5 or 4

Average Distance From The MEAN
aka Mean Absolute Deviation

$\bar{X} = 4.75$ MAD = .95833

$\bar{Y} = 5.16$ MAD = 2.0278

ASK ME ABOUT N vs. N-1 in Denom.

Average SQUARED Distance from the Mean
aka VARIANCE

for X $\frac{\sum (X - \bar{X})^2}{N} = 1.354$ S_x^2 for Y: $\frac{\sum (Y - \bar{Y})^2}{N} = 2.027$ S_y^2

SQUARE ROOT of AVERAGE SQUARED Distance from the Mean
aka The STANDARD DEVIATION

for X: $S_x = \sqrt{\frac{\sum (X_i - \bar{X})^2}{N-1}}$ for Y: $S_y = \sqrt{\frac{\sum (Y_i - \bar{Y})^2}{N-1}}$

$S_x = 1.215$ $S_y = 2.517$